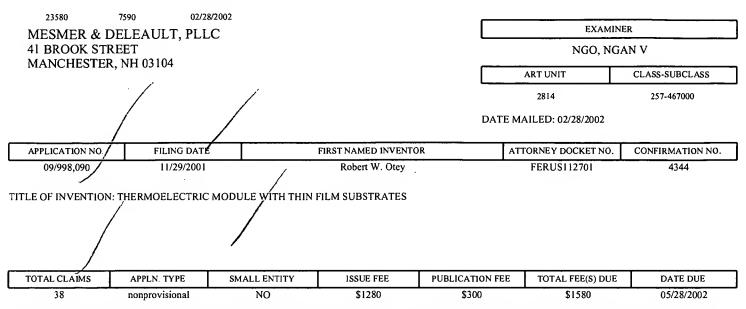




#### United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

## NOTICE OF ALLOWANCE AND FEE(S) DUE



THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>, THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above. If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

B. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

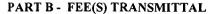
B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

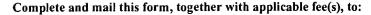
☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.





**Box ISSUE FEE** 

**Assistant Commissioner for Patents** 

Washington, D.C. 20231

MAILING INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed

where appropriate. All f indicated unless correct maintenance fee notifica	ed below or directed of	heluding the Patent, advance the herwise in Block 1, by (a	ce orders and notification of the control of the co	on of maintenance fe- orrespondence address	es will be mailed to the currer s; and/or (b) indicating a sep	nt correspondence address a arate "FEE ADDRESS" fo	
23580	7590 02/20 DELEAULT, PLL REET	oly mark-up with any corrections of 8/2002	ruse Block I)	Note: The certificate of mailing below can only be used for demailings of the Fee(s) Transmittal. This certificate cannot be used other accompanying papers. Each additional paper, such as an assi or formal drawing, must have its own certificate of mailing.  Certificate of Mailing  I hereby certify that this Fee(s) Transmittal is being deposited we United States Postal Service with sufficient postage for first class may envelope addressed to the Box Issue Fee address above on the indicated below.  (Deposite of Mailing)			
APPLICATION NO.	FILING DATE	<del> </del>	FIRST NAMED INVEN	FOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/998,090 TITLE OF INVENTION	11/29/2001 I: THERMOELECTRIC	MODULE WITH THIN I	Robert W. Otey FILM SUBSTRATES		FERUS112701	4344	
TOTAL CLAIMS	APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION F	EE TOTAL FEE(S) DUE	DATE DUE	
38	nonprovisional	NO	\$1280	\$300	\$1580	05/28/2002	
EXA	MINER	ART UNIT	CLASS-SUBCL	ASS			
· NGO,	NGAN V	2814	257-46700	0			
CFR 1.363). Use of PT but not required.  Change of corresponded corres	O form(s) and Customer ondence address (or Char B/122) attached. cation (or "Fee Address"		the names of up or agents OR, single firm (ha attorney or age	on the patent front p to 3 registered pate alternatively, (2) the ving as a member ant) and the names attomeys or agents. e will be printed.	nt attorneys name of a a registered of up to 2		
3. ASSIGNEE NAME A	ND RESIDENCE DAT.	A TO BE PRINTED ON T	HE PATENT (print or	r type)			
PLEASE NOTE: Unles been previously submit (A) NAME OF ASSIG	ted to the USPTO or is b	being submitted under sepa	a will appear on the p trate cover. Completion RESIDENCE: (CITY	n of this form is NOT	signee data is only appropria a substitute for filing an assig UNTRY)	te when an assignment has gnment.	
Please check the appropr	iate assignee category or	r categories (will not be pri	inted on the patent)	☐ individual ☐	corporation or other private g	roup entity   government	
a. The following fee(s)	are enclosed:	4b.	Payment of Fee(s):		<del></del>		
□ Issue Fee			☐ A check in the amount of the fee(s) is enclosed.				
□ Publication Fee			☐ Payment by credit card. Form PTO-2038 is attached.				
☐ Advance Order - # o	f Copies	Dej	The Commissioner is h posit Account Number	ereby authorized by c	charge the required fee(s), or cenclose an extra copy of this	credit any overpayment, to form).	
<del></del>					•		

The COMMISSIONER OF PATENTS AND TRADEMARKS is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.

(Authorized Signature)

(Date)

NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending on the needs of the individual case. Any comments on the amount of time required to complete this form should be sent to the Chief Information Officer, United States Patent and Trademark Office, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND FEES AND THIS FORM TO: Box Issue Fee, Assistant Commissioner for Patents, Washington, D.C. 20231

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### United States Patent and Trademark Office

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/998,090	11/29/2001	Robert W. Otey	FERUS112701	4344
23580	7590 02/28/2002		EXAMINER	
	ELEAULT, PLLC	NGO, NGAN V		
41 BROOK STRE MANCHESTER.			ART UNIT	PAPER NUMBER
			2814	
			DATE MAILED: 02/28/2002	

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 0 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 0 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

•	Application No.	Applicant(s)	
AL 4' F. A.H L. 11'4	09/998,090	OTEY	
Notice of Allowability	Examiner	Art Unit	
	Ngan Ngo	2814	
	Ngan Ngo	2014	
The MAILING DATE of this communication applied All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOLNOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	IS (OR REMAINS) CLOSED (85) or other appropriate common RIGHTS. This application is	in this application. If not included nunication will be mailed in due c	d ourse. THIS
1. This communication is responsive to			
2. The allowed claim(s) is/are <u>1-38</u> .			
3. $\boxtimes$ The drawings filed on <u>29 November 2001</u> are accepted	by the Examiner.		
4. ☐ Acknowledgment is made of a claim for foreign priority a) ☐ All b) ☐ Some* c) ☐ None of the:	under 35 U.S.C. § 119(a)-(d) (	or (f).	
<ol> <li>Certified copies of the priority documents h</li> </ol>	ave been received.		
2.  Certified copies of the priority documents h	ave been received in Applicati	on No	
3. Copies of the certified copies of the priority	documents have been receive	ed in this national stage applicati	on from the
International Bureau (PCT Rule 17.2(a))			
* Certified copies not received:			
5. Acknowledgment is made of a claim for domestic priority			
(a) The translation of the foreign language provision			
6. Acknowledgment is made of a claim for domestic priorit	y under 35 U.S.C. <b>§§</b> 120 and	/or 121.	
Applicant has THREE MONTHS FROM THE "MAILING DATE below. Failure to timely comply will result in ABANDONMENT  7. A SUBSTITUTE OATH OR DECLARATION must be su INFORMAL PATENT APPLICATION (PTO-152) which gives resulting the substitution of the subst	of this application. THIS THI ubmitted. Note the attached EX	REE-MONTH PERIOD IS NOT B KAMINER'S AMENDMENT or N	XTENDABLE.
8. CORRECTED DRAWINGS must be submitted.			
(a) ☐ including changes required by the Notice of Drafts	person's Patent Drawing Revie	ew ( PTO-948) attached	
1) hereto or 2) to Paper No		(	
(b) ☐ including changes required by the proposed drawing	na correction filed . wh	ich has been approved by the Ex	caminer.
(c) ☐ including changes required by the attached Examin			
(e) 🗀e ag en requires e)e ae ae			· · · · · · · · · · · · · · · · · · ·
Identifying indicia such as the application number (see 37 CF of each sheet. The drawings should be filed as a separate pa			
<ol> <li>DEPOSIT OF and/or INFORMATION about the de attached Examiner's comment regarding REQUIREMENT FOR</li> </ol>			ote the
Attachment(s)			
<ul> <li>1⊠ Notice of References Cited (PTO-892)</li> <li>3□ Notice of Draftperson's Patent Drawing Review (PTO-948</li> <li>5⊠ Information Disclosure Statements (PTO-1449), Paper No.</li> <li>7□ Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>	) 4	of Informal Patent Application (Pow Summary (PTO-413), Paper November's Amendment/Comment ter's Statement of Reasons for A	No

Art Unit: 2814

Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

The prior arts of record do not show the thermoelectric module having a pair of

flexible substrate with electrically conductive contacts disposed on opposing faces of

the pair of substrates.

Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Any inquiry concerning this communication should be directed to

Examiner Ngan Ngo at telephone number (703) 308-4938. The fax number for the Art

unit is (703) 308-7722.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the Group receptionist whose telephone number is

(703) 308-0956.

Page 2

Primary Examiner

Ngan Ngo February 25, 2002